In the Claims:

1. (Currently Amended) A fuel cell system with a reformer and a mixture formation means, said mixture formation means ~~for a reformer of a fuel cell system or for a heater~~ comprising:

a fuel feed means;

an air feed means; ~~and~~

a mixture formation area, and

a fuel heating means,

wherein the fuel feed means includes a pressure impulse injection means ~~and a fuel heating means for preheating the fuel before injection, and~~

wherein the mixture formation area is supplied with air and is positioned in line behind the pressure impulse injection means and includes a swirl chamber into which a nozzle connected to the pressure impulse injection device discharges, and

wherein the fuel heating means is positioned in line in front of the pressure impulse injectin device for preheating the fuel before injection.

2. (Currently Amended) The fuel cell system ~~mixture formation means~~ as claimed in claim 1, wherein the pressure impulse injection means includes a changeover valve and the fuel heating means is located in a fuel line located between the changeover valve and the nozzle.

3. (Currently Amended) The fuel cell system ~~mixture formation means~~ as claimed in claim 1, wherein the fuel heating means heats the fuel to the temperature at which the vapor pressure of the fuel is below a holding pressure of the pressure impulse injection means.

4. (Currently Amended) The fuel cell system ~~mixture formation means~~ as claimed in claim 1, wherein the air feed means includes an air heater.

5. (Currently Amended) The fuel cell system ~~mixture formation means~~ as claimed in claim 4, wherein the air heater heats the air to a temperature at which condensation of the fuel in the swirl chamber no longer occurs.

6. (Currently Amended) The fuel cell system ~~mixture formation means~~ as claimed in ~~one of~~ claim 1, wherein the air feed supplies air continuously.